



JPW

PTO/SB/21 customized for Loyal M. Hanson

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Not counting this transmittal form
Total Number of Pages in This Submission

34

Application Number	10/632,006
Filing Date	07/31/2003
First Named Inventor	MAICHEL, et al.
Group Art Unit	3753
Examiner Name	Kevin L. Lee
Attorney Docket Number	1344

31 + 1 + 1 + 1 = 34

ENCLOSURES (check all that apply)

☒ Fee Transmittal Form 1 pages

☐ Fee Attached

☒ Amendment / Reply 31 pages

☐ After Final

☐ Affidavits/declaration(s)

***** ☐ Extension of Time Request

☐ Express Abandonment Request

☐ Information Disclosure Statement

☐ Certified Copy of Priority Document(s)

☐ Response to Missing Parts/
Incomplete Application

☐ Response to Missing Parts
under 37 CFR 1.52 or 1.53

☐ Assignment Papers
(for an Application)

☐ Drawing(s)

☐ Licensing-related Papers

☐ Petition

☐ Petition to Convert to a
Provisional Application

☐ Power of Attorney, Revocation
Change of Correspondence
Address

☐ Terminal Disclaimer

☐ Request for Refund

☐ CD, Number of CD(s) _____

☐ After Allowance Communication
to Group

☐ Appeal Communication to Board
of Appeals and Interferences

☐ Appeal Communication to Group
(Appeal Notice, Brief, Reply Brief)

☐ Proprietary Information

☐ Status Letter

☒ Other Enclosure(s) (please
identify below):

1. Return Postcard, 1 page

2. Check #10187, 1 page

3.

Remarks

Deposit Account Authorization

The Commissioner is hereby authorized to charge any fees that may be required to accompany this filing, beyond any payment made herewith, and to credit any overpayment to Deposit Account 08-0628 of Loyal M. Hanson.

Deposit Account 08-0628

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm
or
Individual name

Loyal M. Hanson, USPTO Reg. No. 30,062

Signature Sign

L. M. Hanson

Date

May 18, 2005

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on May 18, 2005

Typed or printed name Loyal M. Hanson

Signature Sign

L. M. Hanson

Date

May 18, 2005

*****If an Extension of Time is required for filing the accompanying document(s), Applicant hereby requests the required Extension of Time. Please charge the SMALL ENTITY extension fee to the above Deposit Account.



Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).
Fees effective on 12/08/2004.

FEE TRANSMITTAL

For FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 1,700.00

Complete if Known

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METHOD OF PAYMENT (check all that apply) Check # 10187

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):
☒ Deposit Account Deposit Account Number: 08-0628 Deposit Account Name: Loyal M. Hanson

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below (any deficiency) ☐ Charge fee(s) indicated below, except for the filing fee
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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	
24	- 20 or HP = 0	x 25 = 0		Fee (\$)	Fee Paid (\$)

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
20	- 3 or HP = 17	x 100 = 1,700	

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x		

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge):

Fees Paid (\$)

SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	30,062	Telephone	760-723-0620
Name (Print/Type)	Loyal M. Hanson	Date	May 18 2005		

Supplemental Inventor Remarks

The *Sato* valve clearly depicts a valve body that is split into at least two halves. In Fig. 23-24 the *Sato* valve body is shown to include numerous separate parts, in its final stage in Fig. 25 the valve requires numerous separate parts to achieve a valve body. The *Sato* valve body requires numerous permanent rubber seals in the valve body, whereas the valve body of the instant invention none.

The *Sato* valve assembles and rotates around an existing pressurized pipeline, this is apparent by examining the additional Figures 1, 26, 28, 29, 38, 42, 46, 50, 51, 53, 55, 56, 60, 63, 65, 66, 69, 70 and 71 of the *Sato* patent #6,470,907.

In addition, the *Sato* valve would not be practical to be installed into a new pipeline system because the *Sato* valve-stopping mechanism does not seal against the body alone as does the valve body of the instant invention. In Figures 23-25, of the *Sato* patent there is incorporated a complicated sealing method for the valve-stopping mechanism against the body and requires additional non-realistic methods of sealing the valve-stopping mechanism as seen in seal (8d) for a working valve. The *Sato* valve must seal in the upper bonnet area as well as the hollow body. This is an undesirable trait of all inserting valves, and has always been a hindrance because this sealing practice does not meet any valve codes (e.g., the AWWA and the ANSI standards), thereby making the *Sato* valve unuseable as a conventional valve.

The instant valve body, however, does not assemble around the pipe and the valve body is preferably a one-piece product as stated in paragraph [25.00] and in Figs. 1, 6, 7, 8, 9 and 10 of the present patent application. The valve-stopping

mechanism seals on the body alone as depicted in Fig. 2, 3, 4, 8, 9 and 10 and does not require sealing in the upper bonnet area in any fashion. This allows the valve to be installed into many various types of pipelines meeting all valve codes as a true valve.

In addition these features allow the valve of the instant invention to carry high pressures and high temperatures and provide safe repair equal to a conventional valve when installed during the initial construction stage of a pipeline. The cost of the valve is significantly less than the *Sato* multi-piece, rotational valve and it is produced as a one piece body. The instant valve is reliable as a true valve and does not depend on complicated seals with the added liability to hold pressure, nor does it rotate nor mill the pipe under pressure.

In addition, in Figs. 23-25 of the *Sato* patent depict a bonnet that uses at least one spacer and extensive complicated rubber seals. The instant valve, however, excludes any additional multi-sections between the body and the bonnet that facilitate the rotation and orbiting of the valve body around the pipe as the *Sato* valve is designed. The instant valve requires no unnecessary seals on the bonnet, bonnet spacers or the body, allowing for a true valve.

In Figs. 23-25 for rotational purposes, the *Sato* patent depicts a bonnet that uses a spacer and rubber seals allowing for future leaks; the *Sato* valve does not allow for high pressure methods of valve repair.